

FELLOWSHIP IN CYTOPATHOLOGY

ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a “Deemed to be University under Distinct (Existing) Category,” the university offers multidisciplinary programs across medical, dental, nursing, pharmaceutical sciences, and allied health sciences. The institution emphasizes academic excellence, clinical expertise, innovation, and global collaboration in advancing healthcare education.

PROGRAM OVERVIEW

The Fellowship in Cytopathology is a one-year intensive program designed to train healthcare professionals in the specialized field of cytological diagnostics.

The course focuses on:

- Microscopic evaluation of cells
- Fine-needle aspiration cytology (FNAC)
- Liquid-based cytology
- Molecular techniques in cytopathology
- Integration with histopathological findings

It includes clinical rotations, hands-on laboratory training, and research projects.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

(Deemed to be University)

Graduates will be able to:

1. Develop expertise in the principles and techniques of cytopathology.
 2. Gain proficiency in FNAC procedures and interpretation.
 3. Apply molecular and immunocytochemical techniques.
 4. Integrate cytology with histopathology for accurate diagnosis.
 5. Understand quality assurance and reporting standards.
 6. Enhance decision-making in cytodiagnostics.
 7. Conduct research using evidence-based practices.
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PROGRAM OUTCOMES (POS)

1. Cytopathology Expertise: Perform microscopic evaluation and diagnosis.
2. FNAC Proficiency: Conduct and interpret FNAC procedures.

3. **Molecular Skills:** Apply immunocytochemistry and molecular diagnostics.
 4. **Quality Assurance:** Implement standardized reporting systems.
 5. **Clinical Integration:** Correlate cytology with histopathology.
 6. **Research Orientation:** Contribute to advancements in cytopathology.
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COURSE OUTCOMES (COS)

- CO1: Master cytological preparation and staining techniques.
 - CO2: Perform and interpret FNAC and ROSE procedures.
 - CO3: Apply molecular and immunocytochemical analysis.
 - CO4: Utilize digital and AI-assisted cytology tools.
 - CO5: Integrate cytological and histopathological findings.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in cytological diagnostics.
 2. Apply advanced cytopathology techniques.
 3. Integrate laboratory findings with clinical diagnosis.
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PROGRAM DETAILS

- Certificate Awarded by: Malla Reddy Vishwavidyapeeth
 - Program Duration: One-Year Fellowship
 - Mode of Delivery: Clinical + Theoretical + Hands-on Training
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ELIGIBILITY CRITERIA

- Academic Qualification: MBBS with MD/DNB in Pathology or equivalent
 - Professional Requirement: As per institutional norms
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KEY FEATURES

- Specialized training in cytological diagnostics
 - Hands-on experience in FNAC and lab techniques
 - Exposure to molecular and immunocytochemistry
 - Training in digital cytology and AI tools
 - Research-oriented learning approach
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Understanding of cytological principles and diagnostics
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COGNITIVE SKILLS

- Analytical decision-making in cytodiagnosis
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in FNAC and lab procedures
 - Hands-on cytology slide preparation
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TRANSFERABLE SKILLS

- Clinical correlation and reporting skills
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SUBJECT-SPECIFIC SKILLS

- Advanced cytological and molecular diagnostic techniques
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CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS & CORE CYTOPATHOLOGY

- Principles of Cytopathology
 - Techniques in Cytology
 - FNAC Techniques
 - Liquid-Based Cytology
 - Quality Control & Reporting
 - Clinical Rotations (Lab & OPD)
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SEMESTER 2: ADVANCED CYTOPATHOLOGY & SPECIALIZED TECHNIQUES

- Cytopathology of Major Organ Systems
 - Molecular & Immunocytochemistry
 - Digital & AI-Assisted Cytology
 - Legal & Ethical Aspects
 - Research Project & Case Studies
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PRACTICAL COURSEWORK

- FNAC procedures and slide preparation
 - Cytological evaluation and reporting
 - Molecular and immunocytochemical techniques
 - Digital cytology tools
 - Case discussions and research work
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CAREER OUTCOMES

Graduates can pursue careers as:

- Cytopathologist
- Diagnostic Pathologist
- Laboratory Specialist
- Clinical Researcher
- Academic Professional



**MALLA REDDY
VISHWAVIDYAPEETH**
(Deemed to be University)